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# **Alberta Oil Sands Plant Statistics**

## **Monthly Supplement**

### **March 1997**



# Alberta Oil Sands Plant Statistics Monthly Supplement

Published by the Alberta Energy and Utilities Board  
in cooperation with the Alberta Oil Sands Producers  
Association and the Alberta Oil Sands Processors Association

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Oil Sands Production and Processing - Year to Date

Synthetic Crude Oil, Gasoline and Products - Year to Date

2024 0811-4000

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ALBERTA ENERGY AND UTILITIES BOARD  
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Alberta Oil Sands  
Plant Statistics  
Monthly Supplement

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(403) 297-2399



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## STANDARDS OF MEASUREMENTS

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1. Grade: Mass per cent Bitumen in oil sands.
2. Gas volume at 101.325 kPa and 15° C.
3. Liquid volume at 15° C.

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## NOTES

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- <sup>1</sup> Distillate production does not include heavy fuel oil.
- <sup>2</sup> Sulphur production includes flared / waste.
- <sup>3</sup> Synthetic crude oil production does not include diluent naphtha production. Suncor includes diesel production (SCO site fuel uses.)
- <sup>4</sup> Other hydrocarbons production includes light slop material.





# Bitumen Synthetic Plant Operations

1

1996  
Year  
March  
Month

## Suncor Oil Sands

	Tonnes	Grade
Mined	4 229 978	13.29%
Processed	4 229 978	13.29%
External Energy		
	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	24 046.3	7 630.0
Generated	na	40 206.0
	24 046.3	47 836.0
Plant Use	8 309.4	47 836.0
Further Processing	15 736.9	0.0
Exported	0.0	0.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	24 046.3	47 836.0

## Synchrude Oil Sands

	Tonnes	Grade
Mined	13 791 763	10.32%
Processed	13 351 600	10.40%
External Energy		
	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	98 730.0	19 828.0
Generated	na	149 233.0
	98 730.0	169 061.0
Plant Use	31 159.0	168 989.8
Further Processing	67 571.0	0.0
Exported	0.0	71.2
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	98 730.0	169 061.0



1996  
Year

March  
Month

Operator	Products		Intermediates			
	Synthetic Crude Oil <sup>[3]</sup> m3	Other Hydro -carbons <sup>[4]</sup> m3	Coke tonnes	Sulphur <sup>[2]</sup> tonnes	Bitumen m3	Distillate <sup>[1]</sup> m <sup>3</sup>
<b>Suncor</b>		Diluent Naphtha				
Opening Inventory	73 852	34 941	4 448 151	725	31 377	46 443
Receipts	0	0	0	0	1 555	0
Production	357 685	14 817	101 016	16 288	520 146	417 131
Closing Inventory	105 919	36 518	4 484 661	750	33 680	45 325
	325 618	13 240	64 506	16 263	519 398	418 249
Further Processing	0	10 443	0	0	519 398	355 074
Fuel/Plant Use	4 107	0	64 506	0	0	4 374
Flared/Wasted	0	2 797	0	350	0	0
Metering Diff.	164	0	0	0	0	0
Deliveries	321 347	0	0	15 913	0	58 801
	325 618	13 240	64 506	16 263	519 398	418 249

**Syncrude**

		Diluent Naphtha				
Opening Inventory	29 226	62 784	18 830 525	1 553 254	216 683	54 113
Receipts	0	0	0	0	9 667	0
Production	970 767	14 811	177 823	40 294	1 233 083	963 485
Closing Inventory	31 451	65 199	18 957 934	1 592 881	304 076	53 398
	968 542	12 396	50 414	667	1 155 357	964 200
Further Processing	0	5 288	0	0	1 155 356	956 542
Fuel/Plant Use	14 377	0	50 414	0	0	7 658
Flared/Wasted	0	7 108	0	667	0	0
Metering Diff.	( 4)	0	0	0	1	0
Diluent Carryover /Rerun	0	0	0	0	0	0
To Suncor	0	0	0	0	0	0
Deliveries	954 169	0	0	0	0	0
	968 542	12 396	50 414	667	1 155 357	964 200



1996 March  
Year to Date

## Suncor Oil Sands

	Tonnes	Grade
Mined	12 217 851	12.79%
Processed	12 217 851	12.79%
External Energy		
	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	69 625.8	33 684.0
Generated	na	118 080.0
	69 625.8	151 764.0
Plant Use	24 869.3	151 764.0
Further Processing	44 756.5	0.0
Exported	0.0	0.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	69 625.8	151 764.0

## Syncrude Oil Sands

	Grade	
Mined	35 579 210	10.39%
Processed	37 427 731	10.40%
External Energy		
	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	291 719.0	62 347.0
Generated	na	422 797.0
	291 719.0	485 144.0
Plant Use	93 418.0	484 985.6
Further Processing	198 301.0	0.0
Exported	0.0	158.4
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	291 719.0	485 144.0





1996 March  
Year to Date

Operator	Products		Intermediates			
	Synthetic Crude Oil <sup>[3]</sup> m <sup>3</sup>	Other Hydro -carbons [4] m3	Coke tonnes	Sulphur <sup>[2]</sup> tonnes	Bitumen m3	Distillate <sup>[1]</sup> m <sup>3</sup>
<b>Suncor</b>		Diluent Naphtha				
Opening Inventory	83 855	36 879	4 397 184	0	24 754	48 400
Receipts	0	0	0	0	8 990	0
Production	1 014 432	48 766	282 410	45 934	1 452 019	1 180 138
Closing Inventory	105 919	36 518	4 484 661	750	33 680	45 325
	992 368	49 127	194 933	45 184	1 452 083	1 183 213
Further Processing	0	43 329	0	0	1 452 083	1 015 024
Fuel/Plant Use	10 767	0	194 933	0	0	5 438
Flared/Wasted	0	5 798	0	1 022	0	868
Metering Diff.	174	0	0	0	0	0
Deliveries	981 427	0	0	44 162	0	161 883
	992 368	49 127	194 933	45 184	1 452 083	1 183 213

<b>Syncrude</b>		Diluent Naphtha				
Opening Inventory	30 593	66 165	18 586 768	1 478 028	166 325	39 937
Receipts	0	0	0	0	23 324	0
Production	2 800 913	37 535	518 031	116 940	3 472 776	2 795 336
Closing Inventory	31 451	65 199	18 957 934	1 592 881	304 076	53 398
	2 800 055	38 501	146 865	2 087	3 358 349	2 781 875
Further Processing	0	18 458	0	0	3 358 348	2 755 286
Fuel/Plant Use	33 996	0	146 865	0	0	26 592
Flared/Wasted	0	20 043	0	2 087	0	0
Metering Diff.	( 2)	0	0	0	1	( 3)
Diluent Carryover						
/Rerun	0	0	0	0	0	0
To Suncor	0	0	0	0	0	0
Deliveries	2 766 061	0	0	0	0	0
	2 800 055	38 501	146 865	2 087	3 358 349	2 781 875

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1. Grade: Mass per cent Bitumen in oil sands.
2. Gas volume at 101.325 kPa and 15° C.
3. Liquid volume at 15° C.

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**NOTES**

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- <sup>1</sup> Distillate production does not include heavy fuel oil.
- <sup>2</sup> Sulphur production includes flared / waste.
- <sup>3</sup> Synthetic crude oil production does not include diluent naphtha production.  
Suncor includes diesel production (SCO site fuel uses.)
- <sup>4</sup> Other hydrocarbons production includes light slop material.





1996

April

Year

Month

## Suncor Oil Sands

	Tonnes	Grade
Mined	3 664 294	14.19%
Processed	3 664 294	14.19%
External Energy		
	Gas	Electric
	10 <sup>3</sup> m <sup>3</sup>	MWh
Purchased	21 109.7	14 731.0
Generated	na	33 665.0
	21 109.7	48 396.0
Plant Use	7 756.1	48 386.0
Further Processing	13 353.6	0.0
Exported	0.0	10.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	21 109.7	48 396.0

## Syncrude Oil Sands

	Tonnes	Grade
Mined	9 150 335	10.83%
Processed	6 789 470	10.47%
External Energy		
	Gas	Electric
	10 <sup>3</sup> m <sup>3</sup>	MWh
Purchased	90 323.0	12 841.0
Generated	na	105 966.0
	90 323.0	118 807.0
Plant Use	46 602.0	118 559.2
Further Processing	43 721.0	0.0
Exported	0.0	247.8
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	90 323.0	118 807.0



# Bitumen Synthetic Plant Operations

2

1996  
Year

April  
Month

Operator	Products		Intermediates			
	Synthetic Crude Oil <sup>[3]</sup>	Other Hydro -carbons <sup>[4]</sup>	Coke	Sulphur <sup>[2]</sup>	Bitumen	Distillate <sup>[1]</sup>
	m3	m3	tonnes	tonnes	m3	m <sup>3</sup>
<b>Suncor</b>						
		Diluent Naphtha				
Opening Inventory	105 919	36 518	4 484 661	750	33 680	45 325
Receipts	0	0	0	0	262	0
Production	325 975	22 291	92 740	15 001	483 812	393 550
Closing Inventory	106 142	40 622	4 525 213	877	40 906	34 781
	325 752	18 187	52 188	14 874	476 848	404 094
Further Processing	0	16 738	0	0	476 848	336 795
Fuel/Plant Use	4 259	0	52 188	0	0	5 553
Flared/Wasted	0	1 449	0	312	0	1 310
Metering Diff.	( 1 118)	0	0	0	0	0
Deliveries	322 611	0	0	14 562	0	60 436
	325 752	18 187	52 188	14 874	476 848	404 094

## Syncrude

		Diluent Naphtha				
Opening Inventory	31 451	65 199	18 957 934	1 592 881	304 076	53 398
Receipts	0	0	0	0	10 142	0
Production	585 048	20 563	102 978	23 391	669 937	586 390
Closing Inventory	38 094	69 629	19 031 717	1 616 072	285 581	65 350
	578 405	16 133	29 195	200	698 574	574 438
Further Processing	0	12 891	0	0	698 573	567 374
Fuel/Plant Use	21 280	0	29 195	0	0	7 066
Flared/Wasted	0	3 243	0	200	0	0
Metering Diff.	( 12)	( 1)	0	0	1	( 2)
Diluent Carryover /Rerun	0	0	0	0	0	0
To Suncor	0	0	0	0	0	0
Deliveries	557 137	0	0	0	0	0
	578 405	16 133	29 195	200	698 574	574 438





1996 April  
Year to Date

**Suncor  
Oil Sands**

	Tonnes	Grade
Mined	15 882 145	13.12%
Processed	15 882 145	13.12%
External Energy		
	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	90 735.5	48 415.0
Generated	na	151 745.0
	90 735.5	200 160.0
Plant Use	32 625.4	200 150.0
Further Processing	58 110.1	0.0
Exported	0.0	10.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	90 735.5	200 160.0

**Syncrude  
Oil Sands**

		Grade
Mined	44 729 545	10.48%
Processed	44 217 201	10.47%
External Energy		
	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	382 042.0	75 188.0
Generated	na	528 763.0
	382 042.0	603 951.0
Plant Use	140 020.0	603 544.8
Further Processing	242 022.0	0.0
Exported	0.0	406.2
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	382 042.0	603 951.0



# Bitumen Synthetic Plant Operations

4

1996 April  
Year to Date

Operator	Products		Intermediates			
	Synthetic Crude Oil <sup>[3]</sup> m <sup>3</sup>	Other Hydro -carbons [4] m3	Coke tonnes	Sulphur <sup>[2]</sup> tonnes	Bitumen m3	Distillate <sup>[1]</sup> m <sup>3</sup>
<b>Suncor</b>		Diluent Naphtha				
Opening Inventory	83 855	36 879	4 397 184	0	24 754	48 400
Receipts	0	0	0	0	9 252	0
Production	1 340 407	71 057	375 150	60 935	1 935 831	1 573 688
Closing Inventory	106 142	40 622	4 525 213	877	40 906	34 781
	1 318 120	67 314	247 121	60 058	1 928 931	1 587 307
Further Processing	0	60 067	0	0	1 928 931	1 351 819
Fuel/Plant Use	15 026	0	247 121	0	0	10 991
Flared/Wasted	0	7 247	0	1 334	0	2 178
Metering Diff.	( 944)	0	0	0	0	0
Deliveries	1 304 038	0	0	58 724	0	222 319
	1 318 120	67 314	247 121	60 058	1 928 931	1 587 307
<b>Syncrude</b>		Diluent Naphtha				
Opening Inventory	30 593	66 165	18 586 768	1 478 028	166 325	39 937
Receipts	0	0	0	0	33 466	0
Production	3 385 961	58 098	621 009	140 331	4 142 713	3 381 726
Closing Inventory	38 094	69 629	19 031 717	1 616 072	285 581	65 350
	3 378 460	54 634	176 060	2 287	4 056 923	3 356 313
Further Processing	0	31 349	0	0	4 056 921	3 322 660
Fuel/Plant Use	55 276	0	176 060	0	0	33 658
Flared/Wasted	0	23 286	0	2 287	0	0
Metering Diff.	( 14)	( 1)	0	0	2	( 5)
Diluent Carryover						
/Rerun	0	0	0	0	0	0
To Suncor	0	0	0	0	0	0
Deliveries	3 323 198	0	0	0	0	0
	3 378 460	54 634	176 060	2 287	4 056 923	3 356 313

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1. Grade: Mass per cent Bitumen in oil sands.
2. Gas volume at 101.325 kPa and 15° C.
3. Liquid volume at 15° C.

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**NOTES**

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- <sup>1</sup> Distillate production does not include heavy fuel oil.
- <sup>2</sup> Sulphur production includes flared / waste.
- <sup>3</sup> Synthetic crude oil production does not include diluent naphtha production.  
Suncor includes diesel production (SCO site fuel uses.)
- <sup>4</sup> Other hydrocarbons production includes light slop material.





1997

Year

May

Month

## Suncor Oil Sands

	Tonnes	Grade
Mined	551 791	12.16%
Processed	551 791	12.16%

### External Energy

	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	8 050.1	4 693.0
Generated	na	8 057.0
	8 050.1	12 750.0

Plant Use	5 878.1	12 165.0
Further Processing	2 172.0	0.0
Exported	0.0	585.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	8 050.1	12 750.0

## Syncrude Oil Sands

	Tonnes	Grade
Mined	10 117 075	10.56%
Processed	11 972 061	10.47%

### External Energy

	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	101 294.0	6 623.0
Generated	na	131 307.0
	101 294.0	137 930.0

Plant Use	49 053.0	137 465.3
Further Processing	52 241.0	0.0
Exported	0.0	464.7
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	101 294.0	137 930.0



1997  
Year

May  
Month

Operator	Products		Intermediates			
	Synthetic Crude Oil <sup>[3]</sup>	Other Hydro -carbons <sup>[4]</sup>	Coke	Sulphur <sup>[2]</sup>	Bitumen	Distillate <sup>[1]</sup>
	m3	m3	tonnes	tonnes	m3	m <sup>3</sup>
<b>Suncor</b>						
		Diluent Naphtha				
Opening Inventory	106 142	40 622	4 525 213	877	40 906	34 781
Receipts	0	0	0	0	0	0
Production	17 126	9 718	16 387	1 533	59 782	78 443
Closing Inventory	54 071	47 462	4 515 656	2 155	16 431	54 292
	69 197	2 878	25 944	255	84 257	58 932
Further Processing	0	1 832	0	0	84 257	22 543
Fuel/Plant Use	4 221	0	11 761	0	0	7 886
Flared/Wasted	0	1 046	0	132	0	4 116
Metering Diff.	( 161)	0	0	0	0	0
Deliveries	65 137	0	14 183	123	0	24 387
	69 197	2 878	25 944	255	84 257	58 932

<b>Syncrude</b>						
		Diluent Naphtha				
Opening Inventory	38 094	69 629	19 031 717	1 616 072	285 581	65 350
Receipts	0	0	0	0	1 984	0
Production	792 298	9 971	165 173	33 766	1 114 828	821 811
Closing Inventory	15 972	66 744	19 150 063	1 649 197	404 814	107 106
	814 420	12 856	46 827	641	997 579	780 055
Further Processing	0	6 259	0	0	997 579	779 623
Fuel/Plant Use	16 731	0	46 827	0	0	432
Flared/Wasted	0	6 597	0	641	0	0
Metering Diff.	40	0	0	0	0	0
Diluent Carryover /Rerun	0	0	0	0	0	0
To Suncor	0	0	0	0	0	0
Deliveries	797 649	0	0	0	0	0
	814 420	12 856	46 827	641	997 579	780 055



1997 May  
Year to Date

**Suncor  
Oil Sands**

	Tonnes	Grade
Mined	16 433 936	13.08%
Processed	16 433 936	13.08%
External Energy		
	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	98 785.6	53 108.0
Generated	na	159 802.0
	98 785.6	212 910.0
Plant Use	38 503.5	212 315.0
Further Processing	60 282.1	0.0
Exported	0.0	595.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	98 785.6	212 910.0

**Syncrude  
Oil Sands**

		Grade
Mined	54 846 620	10.49%
Processed	56 189 262	10.47%
External Energy		
	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	483 336.0	81 811.0
Generated	na	660 070.0
	483 336.0	741 881.0
Plant Use	189 073.0	741 010.1
Further Processing	294 263.0	0.0
Exported	0.0	870.9
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	483 336.0	741 881.0





# Bitumen Synthetic Plant Operations

4

1997 May  
Year to Date

Operator	Products		Intermediates			
	Synthetic Crude Oil <sup>[3]</sup> m <sup>3</sup>	Other Hydro -carbons [4] m3	Coke tonnes	Sulphur <sup>[2]</sup> tonnes	Bitumen m3	Distillate <sup>[1]</sup> m <sup>3</sup>
<b>Suncor</b>						
		Diluent Naphtha				
Opening Inventory	83 855	36 879	4 397 184	0	24 754	48 400
Receipts	0	0	0	0	9 252	0
Production	1 357 533	80 775	391 537	62 468	1 995 613	1 652 131
Closing Inventory	54 071	47 462	4 515 656	2 155	16 431	54 292
	1 387 317	70 192	273 065	60 313	2 013 188	1 646 239
Further Processing	0	61 899	0	0	2 013 188	1 374 362
Fuel/Plant Use	19 247	0	258 882	0	0	18 877
Flared/Wasted	0	8 293	0	1 466	0	6 294
Metering Diff.	( 1 105)	0	0	0	0	0
Deliveries	1 369 175	0	14 183	58 847	0	246 706
	1 387 317	70 192	273 065	60 313	2 013 188	1 646 239
<b>Syncrude</b>						
		Diluent Naphtha				
Opening Inventory	30 593	66 165	18 586 768	1 478 028	166 325	39 937
Receipts	0	0	0	0	35 450	0
Production	4 178 259	68 069	786 182	174 097	5 257 541	4 203 537
Closing Inventory	15 972	66 744	19 150 063	1 649 197	404 814	107 106
	4 192 880	67 490	222 887	2 928	5 054 502	4 136 368
Further Processing	0	37 608	0	0	5 054 500	4 102 283
Fuel/Plant Use	72 007	0	222 887	0	0	34 090
Flared/Wasted	0	29 883	0	2 928	0	0
Metering Diff.	26	( 1)	0	0	2	( 5)
Diluent Carryover /Rerun	0	0	0	0	0	0
To Suncor	0	0	0	0	0	0
Deliveries	4 120 847	0	0	0	0	0
	4 192 880	67 490	222 887	2 928	5 054 502	4 136 368

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CANADIANA

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# **Alberta Oil Sands Plant Statistics**

## **Monthly Supplement**

### **June 1997**



**Alberta Oil Sands  
Plant Statistics  
Monthly Supplement**

ALBERTA ENERGY AND UTILITIES BOARD  
STATISTICAL SERIES

ALBERTA OIL SANDS PLANT STATISTICS  
MONTHLY SUPPLEMENT

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640 - 5 Avenue SW  
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**Note:** Inquiries regarding this publication  
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Oil Sands Department at  
(403) 297-2399





1. Grade: Mass per cent Bitumen in oil sands.
2. Gas volume at 101.325 kPa and 15° C.
3. Liquid volume at 15° C.

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**NOTES**

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<sup>1</sup> Distillate production does not include heavy fuel oil.

<sup>2</sup> Sulphur production includes flared / waste.

<sup>3</sup> Synthetic crude oil production does not include diluent naphtha production.  
Suncor includes diesel production (SCO site fuel uses.)

<sup>4</sup> Other hydrocarbons production includes light slop material.



1997

Year

June

Month

## Suncor Oil Sands

	Tonnes	Grade
Mined	4 223 678	12.49%
Processed	4 223 678	12.49%

### External Energy

	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	22 570.9	15 684.0
Generated	na	31 056.0
	22 570.9	46 740.0

Plant Use	11 206.8	46 740.0
Further Processing	11 364.1	0.0
Exported	0.0	0.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	22 570.9	46 740.0

## Syncrude Oil Sands

	Tonnes	Grade
Mined	13 091 321	10.53%
Processed	13 581 272	10.48%

### External Energy

	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	103 923.0	29 013.0
Generated	na	130 949.0
	103 923.0	159 962.0

Plant Use	28 425.0	159 962.0
Further Processing	75 498.0	0.0
Exported	0.0	0.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	103 923.0	159 962.0



1997

June

Year

Month

Operator	Products		Intermediates			
	Synthetic Crude Oil <sup>[3]</sup> m3	Other Hydro -carbons <sup>[4]</sup> m3	Coke tonnes	Sulphur <sup>[2]</sup> tonnes	Bitumen m3	Distillate <sup>[1]</sup> m <sup>3</sup>
<b>Suncor</b>		Diluent Naphtha				
Opening Inventory	54 071	47 462	4 515 656	2 155	16 431	54 292
Receipts	0	0	0	0	1 841	0
Production	227 205	16 616	90 562	11 842	483 269	385 665
Closing Inventory	34 280	46 522	4 534 081	1 335	35 890	105 951
	246 996	17 556	72 137	12 662	465 651	334 006
Further Processing	0	13 969	0	0	465 273	230 478
Fuel/Plant Use	5 476	0	42 626	0	0	2 648
Flared/Wasted	0	3 587	0	198	378	0
Metering Diff.	( 18)	0	0	0	0	0
Deliveries	241 538	0	29 511	12 464	0	100 880
	246 996	17 556	72 137	12 662	465 651	334 006

## Syncrude

		Diluent Naphtha				
Opening Inventory	15 972	66 744	19 150 063	1 649 197	404 814	107 106
Receipts	0	0	0	0	0	0
Production	1 124 287	20 752	198 879	47 713	1 295 012	1 117 169
Closing Inventory	35 456	69 900	19 292 558	1 695 772	392 664	106 383
	1 104 803	17 596	56 384	1 138	1 307 162	1 117 892
Further Processing	0	9 799	0	0	1 307 164	1 103 225
Fuel/Plant Use	14 514	0	56 384	0	0	14 668
Flared/Wasted	0	7 795	0	1 138	0	0
Metering Diff.	( 35)	2	0	0	( 2)	( 1)
Diluent Carryover /Rerun	0	0	0	0	0	0
To Suncor	0	0	0	0	0	0
Deliveries	1 090 324	0	0	0	0	0
	1 104 803	17 596	56 384	1 138	1 307 162	1 117 892





1997 June  
Year to Date

## Suncor Oil Sands

	Tonnes	Grade
Mined	20 657 614	12.96%
Processed	20 657 614	12.96%
External Energy		
	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	121 356.5	68 792.0
Generated	na	190 858.0
	121 356.5	259 650.0
Plant Use	49 710.3	259 055.0
Further Processing	71 646.2	0.0
Exported	0.0	595.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	121 356.5	259 650.0

## Syncrude Oil Sands

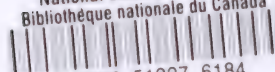
		Grade
Mined	67 937 941	10.50%
Processed	69 770 534	10.48%
External Energy		
	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	587 259.0	110 824.0
Generated	na	791 019.0
	587 259.0	901 843.0
Plant Use	217 498.0	900 972.1
Further Processing	369 761.0	0.0
Exported	0.0	870.9
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	587 259.0	901 843.0



1997 June  
Year to Date

Operator	Products		Intermediates			
	Synthetic Crude Oil <sup>[3]</sup> m <sup>3</sup>	Other Hydro -carbons [4] m3	Coke tonnes	Sulphur <sup>[2]</sup> tonnes	Bitumen m3	Distillate <sup>[1]</sup> m <sup>3</sup>
<b>Suncor</b>		Diluent Naphtha				
Opening Inventory	83 855	36 879	4 397 184	0	24 754	48 400
Receipts	0	0	0	0	11 093	0
Production	1 584 738	97 391	482 099	74 310	2 478 882	2 037 796
Closing Inventory	34 280	46 522	4 534 081	1 335	35 890	105 951
	1 634 313	87 748	345 202	72 975	2 478 839	1 980 245
Further Processing	0	75 868	0	0	2 478 461	1 604 840
Fuel/Plant Use	24 723	0	301 508	0	0	21 525
Flared/Wasted	0	11 880	0	1 664	378	6 294
Metering Diff.	( 1 123)	0	0	0	0	0
Deliveries	1 610 713	0	43 694	71 311	0	347 586
	1 634 313	87 748	345 202	72 975	2 478 839	1 980 245
<b>Syncrude</b>		Diluent Naphtha				
Opening Inventory	30 593	66 165	18 586 768	1 478 028	166 325	39 937
Receipts	0	0	0	0	35 450	0
Production	5 302 546	88 821	985 061	221 810	6 552 553	5 320 706
Closing Inventory	35 456	69 900	19 292 558	1 695 772	392 664	106 383
	5 297 683	85 086	279 271	4 066	6 361 664	5 254 260
Further Processing	0	47 407	0	0	6 361 664	5 205 508
Fuel/Plant Use	86 521	0	279 271	0	0	48 758
Flared/Wasted	0	37 678	0	4 066	0	0
Metering Diff.	( 9)	1	0	0	0	( 6)
Diluent Carryover /Rerun	0	0	0	0	0	0
To Suncor	0	0	0	0	0	0
Deliveries	5 211 171	0	0	0	0	0
	5 297 683	85 086	279 271	4 066	6 361 664	5 254 260

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1. Grade: Mass per cent Bitumen in oil sands.
2. Gas volume at 101.325 kPa and 15° C.
3. Liquid volume at 15° C.

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**NOTES**

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- <sup>1</sup> Distillate production does not include heavy fuel oil.
- <sup>2</sup> Sulphur production includes flared / waste.
- <sup>3</sup> Synthetic crude oil production does not include diluent naphtha production.  
Suncor includes diesel production (SCO site fuel uses.)
- <sup>4</sup> Other hydrocarbons production includes light slop material.



1997

Year

July

Month

## Suncor Oil Sands

	Tonnes	Grade
Mined	5 283 948	12.35%
Processed	5 283 948	12.35%

### External Energy

	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	22 273.1	18 152.0
Generated	na	32 748.0
	22 273.1	50 900.0

Plant Use	5 615.2	50 900.0
Further Processing	16 657.9	0.0
Exported	0.0	0.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	22 273.1	50 900.0

## Syncrude Oil Sands

	Tonnes	Grade
Mined	14 096 475	10.57%
Processed	13 077 973	10.50%

### External Energy

	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	103 900.0	46 302.0
Generated	na	123 065.0
	103 900.0	169 367.0

Plant Use	23 533.0	169 248.3
Further Processing	80 367.0	0.0
Exported	0.0	118.7
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	103 900.0	169 367.0





1997  
Year

July  
Month

Operator	Products		Intermediates			
	Synthetic Crude Oil <sup>[3]</sup>	Other Hydro -carbons <sup>[4]</sup>	Coke	Sulphur <sup>[2]</sup>	Bitumen	Distillate <sup>[1]</sup>
	m3	m3	tonnes	tonnes	m3	m <sup>3</sup>
<b>Suncor</b>						
		Diluent Naphtha				
Opening Inventory	34 280	46 522	4 534 081	1 335	35 890	105 951
Receipts	0	0	0	0	2 506	0
Production	369 453	23 228	106 474	16 612	543 839	439 788
Closing Inventory	97 159	48 000	4 570 351	1 335	34 774	75 022
	306 574	21 750	70 204	16 612	547 461	470 717
Further Processing	0	16 976	0	0	547 461	372 310
Fuel/Plant Use	6 135	0	48 688	0	0	6 218
Flared/Wasted	0	4 774	0	267	0	14
Metering Diff.	248	0	0	0	0	0
Deliveries	300 191	0	21 516	16 345	0	92 175
	306 574	21 750	70 204	16 612	547 461	470 717

<b>Syncrude</b>						
		Diluent Naphtha				
Opening Inventory	35 456	69 900	19 292 558	1 695 772	392 664	106 383
Receipts	0	0	0	0	0	0
Production	1 187 114	15 699	206 394	49 999	1 256 826	1 171 974
Closing Inventory	71 929	70 672	19 440 438	1 744 912	282 600	96 387
	1 150 641	14 927	58 514	859	1 366 890	1 181 970
Further Processing	0	9 291	0	0	1 366 890	1 166 272
Fuel/Plant Use	6 205	0	58 514	0	0	15 699
Flared/Wasted	0	5 636	0	859	0	0
Metering Diff.	( 66)	0	0	0	0	( 1)
Diluent Carryover						
/Rerun	0	0	0	0	0	0
To Suncor	0	0	0	0	0	0
Deliveries	1 144 502	0	0	0	0	0
	1 150 641	14 927	58 514	859	1 366 890	1 181 970



1997 July  
Year to Date

**Suncor  
Oil Sands**

	Tonnes	Grade
Mined	25 941 562	12.84%
Processed	25 941 562	12.84%
External Energy		
	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	143 629.6	86 944.0
Generated	na	223 606.0
	143 629.6	310 550.0
Plant Use	55 325.5	309 955.0
Further Processing	88 304.1	0.0
Exported	0.0	595.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	143 629.6	310 550.0

**Syncrude  
Oil Sands**

	Grade	
Mined	82 034 416	10.51%
Processed	82 848 507	10.50%
External Energy		
	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	691 159.0	157 126.0
Generated	na	914 084.0
	691 159.0	1 071 210.0
Plant Use	241 031.0	1 070 220.4
Further Processing	450 128.0	0.0
Exported	0.0	989.6
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	691 159.0	1 071 210.0



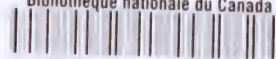
# Bitumen Synthetic Plant Operations

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1997 July  
Year to Date

Operator	Products			Intermediates		
	Synthetic Crude Oil <sup>[3]</sup> m <sup>3</sup>	Other Hydro -carbons [4] m3	Coke tonnes	Sulphur <sup>[2]</sup> tonnes	Bitumen m3	Distillate <sup>[1]</sup> m <sup>3</sup>
<b>Suncor</b>						
		Diluent Naphtha				
Opening Inventory	83 855	36 879	4 397 184	0	24 754	48 400
Receipts	0	0	0	0	13 599	0
Production	1 954 191	120 619	588 573	90 922	3 022 721	2 477 584
Closing Inventory	97 159	48 000	4 570 351	1 335	34 774	75 022
	1 940 887	109 498	415 406	89 587	3 026 300	2 450 962
Further Processing	0	92 844	0	0	3 025 922	1 977 150
Fuel/Plant Use	30 858	0	350 196	0	0	27 743
Flared/Wasted	0	16 654	0	1 931	378	6 308
Metering Diff.	( 875)	0	0	0	0	0
Deliveries	1 910 904	0	65 210	87 656	0	439 761
	1 940 887	109 498	415 406	89 587	3 026 300	2 450 962
<b>Syncrude</b>						
		Diluent Naphtha				
Opening Inventory	30 593	66 165	18 586 768	1 478 028	166 325	39 937
Receipts	0	0	0	0	35 450	0
Production	6 489 660	104 520	1 191 455	271 809	7 809 379	6 492 680
Closing Inventory	71 929	70 672	19 440 438	1 744 912	282 600	96 387
	6 448 324	100 013	337 785	4 925	7 728 554	6 436 230
Further Processing	0	56 698	0	0	7 728 554	6 371 780
Fuel/Plant Use	92 726	0	337 785	0	0	64 457
Flared/Wasted	0	43 314	0	4 925	0	0
Metering Diff.	( 75)	1	0	0	0	( 7)
Diluent Carryover /Rerun	0	0	0	0	0	0
To Suncor	0	0	0	0	0	0
Deliveries	6 355 673	0	0	0	0	0
	6 448 324	100 013	337 785	4 925	7 728 554	6 436 230

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2. Gas volume at 101.325 kPa and 15° C.
3. Liquid volume at 15° C.

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**NOTES**

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- <sup>1</sup> Distillate production does not include heavy fuel oil.
- <sup>2</sup> Sulphur production includes flared / waste.
- <sup>3</sup> Synthetic crude oil production does not include diluent naphtha production.  
Suncor includes diesel production (SCO site fuel uses.)
- <sup>4</sup> Other hydrocarbons production includes light slop material.



1997	August
Year	Month

Suncor  
Oil Sands

	Tonnes	Grade
Mined	5 346 913	11.11%
Processed	5 346 913	11.11%
External Energy		
	Gas	Electric
	10 <sup>3</sup> m <sup>3</sup>	MWh
Purchased	26 700.4	23 397.0
Generated	na	26 735.0
	26 700.4	50 132.0
Plant Use	10 622.1	50 132.0
Further Processing	16 078.3	0.0
Exported	0.0	0.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	26 700.4	50 132.0

Syncrude  
Oil Sands

	Tonnes	Grade
Mined	13 019 048	10.73%
Processed	13 673 746	10.52%
External Energy		
	Gas	Electric
	10 <sup>3</sup> m <sup>3</sup>	MWh
Purchased	112 623.0	43 062.0
Generated	na	126 747.0
	112 623.0	169 809.0
Plant Use	35 190.0	169 796.6
Further Processing	77 433.0	0.0
Exported	0.0	12.4
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	112 623.0	169 809.0





# Bitumen Synthetic Plant Operations

2

1997	August
Year	Month

Operator	Products		Intermediates			
	Synthetic Crude Oil <sup>[3]</sup>	Other Hydro -carbons <sup>[4]</sup>	Coke	Sulphur <sup>[2]</sup>	Bitumen	Distillate <sup>[1]</sup>
	m3	m3	tonnes	tonnes	m3	m <sup>3</sup>
<b>Suncor</b>		Diluent Naphtha				
Opening Inventory	97 159	48 000	4 570 351	1 335	34 774	75 022
Receipts	0	0	0	0	731	0
Production	381 564	13 390	106 568	17 128	531 009	450 480
Closing Inventory	104 525	43 116	4 588 337	1 345	18 565	57 104
	374 198	18 274	88 582	17 118	547 949	468 398
Further Processing	0	15 323	0	0	546 937	381 452
Fuel/Plant Use	5 237	0	87 750	0	0	( 1 933)
Flared/Wasted	0	2 951	0	314	1 012	1
Metering Diff.	2 294	0	0	0	0	0
Deliveries	366 667	0	832	16 804	0	88 878
	374 198	18 274	88 582	17 118	547 949	468 398

<b>Syncrude</b>		Diluent Naphtha				
Opening Inventory	71 929	70 672	19 440 438	1 744 912	282 600	96 387
Receipts	0	0	0	0	0	0
Production	1 160 739	16 209	197 676	50 471	1 332 585	1 113 417
Closing Inventory	64 443	68 662	19 582 072	1 794 625	298 642	56 593
	1 168 225	18 219	56 042	758	1 316 543	1 153 211
Further Processing	0	11 485	0	0	1 316 542	1 137 970
Fuel/Plant Use	7 302	0	56 042	0	0	15 241
Flared/Wasted	0	6 735	0	758	0	0
Metering Diff.	13	( 1)	0	0	1	0
Diluent Carryover /Rerun	0	0	0	0	0	0
To Suncor	0	0	0	0	0	0
Deliveries	1 160 910	0	0	0	0	0
	1 168 225	18 219	56 042	758	1 316 543	1 153 211



1997 August  
Year to Date

## Suncor Oil Sands

	Tonnes	Grade
Mined	31 288 475	12.54%
Processed	31 288 475	12.54%
External Energy		
	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	170 330.0	110 341.0
Generated	na	250 341.0
	170 330.0	360 682.0
Plant Use	65 947.6	360 087.0
Further Processing	104 382.4	0.0
Exported	0.0	595.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	170 330.0	360 682.0

## Synchrude Oil Sands

	Grade	
Mined	95 053 464	10.54%
Processed	96 522 253	10.52%
External Energy		
	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	803 782.0	200 188.0
Generated	na	1 040 831.0
	803 782.0	1 241 019.0
Plant Use	276 221.0	1 240 017.0
Further Processing	527 561.0	0.0
Exported	0.0	1 002.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	803 782.0	1 241 019.0



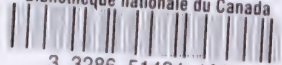
# Bitumen Synthetic Plant Operations

4

1997 August  
Year to Date

Operator	Products		Intermediates			
	Synthetic Crude Oil <sup>[3]</sup> m <sup>3</sup>	Other Hydro -carbons [4] m3	Coke tonnes	Sulphur <sup>[2]</sup> tonnes	Bitumen m3	Distillate <sup>[1]</sup> m <sup>3</sup>
<b>Suncor</b>		Diluent Naphtha				
Opening Inventory	83 855	36 879	4 397 184	0	24 754	48 400
Receipts	0	0	0	0	14 330	0
Production	2 335 755	134 009	695 141	108 050	3 553 730	2 928 064
Closing Inventory	104 525	43 116	4 588 337	1 345	18 565	57 104
	2 315 085	127 772	503 988	106 705	3 574 249	2 919 360
Further Processing	0	108 167	0	0	3 572 859	2 358 602
Fuel/Plant Use	36 095	0	437 946	0	0	25 810
Flared/Wasted	0	19 605	0	2 245	1 390	6 309
Metering Diff.	1 419	0	0	0	0	0
Deliveries	2 277 571	0	66 042	104 460	0	528 639
	2 315 085	127 772	503 988	106 705	3 574 249	2 919 360
<b>Syncrude</b>		Diluent Naphtha				
Opening Inventory	30 593	66 165	18 586 768	1 478 028	166 325	39 937
Receipts	0	0	0	0	35 450	0
Production	7 650 399	120 729	1 389 131	322 280	9 141 964	7 606 097
Closing Inventory	64 443	68 662	19 582 072	1 794 625	298 642	56 593
	7 616 549	118 232	393 827	5 683	9 045 097	7 589 441
Further Processing	0	68 183	0	0	9 045 096	7 509 750
Fuel/Plant Use	100 028	0	393 827	0	0	79 698
Flared/Wasted	0	50 049	0	5 683	0	0
Metering Diff.	( 62)	0	0	0	1	( 7)
Diluent Carryover /Rerun	0	0	0	0	0	0
To Suncor	0	0	0	0	0	0
Deliveries	7 516 583	0	0	0	0	0
	7 616 549	118 232	393 827	5 683	9 045 097	7 589 441

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# **Alberta Oil Sands Plant Statistics**

## **Monthly Supplement September 1997**





**Alberta Oil Sands  
Plant Statistics  
Monthly Supplement**

ALBERTA ENERGY AND UTILITIES BOARD  
STATISTICAL SERIES

ALBERTA OIL SANDS PLANT STATISTICS  
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Oil Sands Department at  
(403) 297-2399



1. Grade: Mass per cent Bitumen in oil sands.
2. Gas volume at 101.325 kPa and 15° C.
3. Liquid volume at 15° C.

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**NOTES**

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- <sup>1</sup> Distillate production does not include heavy fuel oil.
- <sup>2</sup> Sulphur production includes flared / waste.
- <sup>3</sup> Synthetic crude oil production does not include diluent naphtha production.  
Suncor includes diesel production (SCO site fuel uses.)
- <sup>4</sup> Other hydrocarbons production includes light slop material.



1997	September
Year	Month

## Suncor Oil Sands

	Tonnes	Grade
Mined	4 539 439	12.00%
Processed	4 539 439	12.00%
External Energy		
	Gas	Electric
	10 <sup>3</sup> m <sup>3</sup>	MWh
Purchased	28 224.1	19 097.0
Generated	na	29 421.0
	28 224.1	48 518.0
Plant Use	13 021.1	48 518.0
Further Processing	15 203.0	0.0
Exported	0.0	0.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	28 224.1	48 518.0

## Syncrude Oil Sands

	Tonnes	Grade
Mined	13 256 744	10.54%
Processed	13 358 835	10.53%
External Energy		
	Gas	Electric
	10 <sup>3</sup> m <sup>3</sup>	MWh
Purchased	113 502.0	35 560.0
Generated	na	126 522.0
	113 502.0	162 082.0
Plant Use	47 405.0	162 082.0
Further Processing	66 097.0	0.0
Exported	0.0	0.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	113 502.0	162 082.0

1997  
Year

September  
Month

Operator	Products			Intermediates		
	Synthetic Crude Oil <sup>[3]</sup>	Other Hydro -carbons <sup>[4]</sup>	Coke	Sulphur <sup>[2]</sup>	Bitumen	Distillate <sup>[1]</sup>
	m3	m3	tonnes	tonnes	m3	m <sup>3</sup>
<b>Suncor</b>						
		Diluent Naphtha				
Opening Inventory	104 525	43 116	4 588 337	1 345	18 565	57 104
Receipts	0	0	0	0	5 043	0
Production	356 022	22 433	94 121	15 712	505 893	400 171
Closing Inventory	90 204	43 249	4 605 119	1 359	45 555	29 449
	370 343	22 300	77 339	15 698	483 946	427 826
Further Processing	0	20 159	0	0	483 769	361 332
Fuel/Plant Use	5 040	0	42 207	0	0	2 274
Flared/Wasted	0	0	0	266	177	4
Metering Diff.	( 1 714)	2 141	0	0	0	0
Deliveries	367 017	0	35 132	15 432	0	64 216
	370 343	22 300	77 339	15 698	483 946	427 826

<b>Syncrude</b>						
		Diluent Naphtha				
Opening Inventory	64 443	68 662	19 582 072	1 794 625	298 642	56 593
Receipts	0	0	0	0	0	0
Production	1 045 943	15 294	177 658	46 520	1 274 428	1 045 210
Closing Inventory	22 376	70 066	19 709 363	1 840 321	357 994	60 312
	1 088 010	13 890	50 367	824	1 215 076	1 041 491
Further Processing	0	8 035	0	0	1 215 076	1 026 195
Fuel/Plant Use	6 099	0	50 367	0	0	15 294
Flared/Wasted	0	5 854	0	824	0	0
Metering Diff.	76	1	0	0	0	2
Diluent Carryover /Rerun	0	0	0	0	0	0
To Suncor	0	0	0	0	0	0
Deliveries	1 081 835	0	0	0	0	0
	1 088 010	13 890	50 367	824	1 215 076	1 041 491



1997 September  
Year to Date

## Suncor Oil Sands

	Tonnes	Grade
Mined	37 941 423	12.50%
Processed	37 941 423	12.50%

### External Energy

	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	198 554.1	129 438.0
Generated	na	279 762.0
	198 554.1	409 200.0

Plant Use	78 968.7	408 605.0
Further Processing	119 585.4	0.0
Exported	0.0	595.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	198 554.1	409 200.0

## Synchrude Oil Sands

		Grade
Mined	108 310 208	10.54%
Processed	109 116 258	10.53%

### External Energy

	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	917 284.0	235 388.0
Generated	na	1 167 353.0
	917 284.0	1 402 741.0

Plant Use	323 626.0	1 401 739.0
Further Processing	593 658.0	0.0
Exported	0.0	1 002.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	917 284.0	1 402 741.0

1997 September  
Year to Date



Operator	Products		Intermediates			
	Synthetic Crude Oil <sup>(3)</sup> m <sup>3</sup>	Other Hydro -carbons [4] m <sup>3</sup>	Coke tonnes	Sulphur <sup>(2)</sup> tonnes	Bitumen m <sup>3</sup>	Distillate <sup>(1)</sup> m <sup>3</sup>
<b>Suncor</b>						
		Diluent Naphtha				
Opening Inventory	83 855	36 879	4 397 184	0	24 754	48 400
Receipts	0	0	0	0	19 373	0
Production	2 691 777	156 442	789 262	123 762	4 059 623	3 328 235
Closing Inventory	90 204	43 249	4 605 119	1 359	45 555	29 449
	2 685 428	150 072	581 327	122 403	4 058 195	3 347 186
Further Processing	0	128 326	0	0	4 056 628	2 719 934
Fuel/Plant Use	41 135	0	480 153	0	0	28 084
Flared/Wasted	0	19 605	0	2 511	1 567	6 313
Metering Diff	( 295)	2 141	0	0	0	0
Deliveries	2 644 588	0	101 174	119 892	0	592 855
	2 685 428	150 072	581 327	122 403	4 058 195	3 347 186
<b>Syncrude</b>						
		Diluent Naphtha				
Opening Inventory	30 593	66 165	18 586 768	1 478 028	166 325	39 937
Receipts	0	0	0	0	35 450	0
Production	8 696 342	136 023	1 566 789	368 800	10 416 392	8 651 307
Closing Inventory	22 376	70 066	19 709 363	1 840 321	357 994	60 312
	8 704 559	132 122	444 194	6 507	10 260 173	8 630 932
Further Processing	0	76 218	0	0	10 260 172	8 535 945
Fuel/Plant Use	106 127	0	444 194	0	0	94 992
Flared/Wasted	0	55 903	0	6 507	0	0
Metering Diff.	14	1	0	0	1	( 5)
Diluent Carryover						
/Rerun	0	0	0	0	0	0
To Suncor	0	0	0	0	0	0
Deliveries	8 598 418	0	0	0	0	0
	8 704 559	132 122	444 194	6 507	10 260 173	8 630 932



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# **Alberta Oil Sands Plant Statistics**

## **Monthly Supplement October 1997**



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1. Grade: Mass per cent Bitumen in oil sands.
2. Gas volume at 101.325 kPa and 15° C.
3. Liquid volume at 15° C.

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**NOTES**

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- <sup>1</sup> Distillate production does not include heavy fuel oil.
- <sup>2</sup> Sulphur production includes flared / waste.
- <sup>3</sup> Synthetic crude oil production does not include diluent naphtha production.  
Suncor includes diesel production (SCO site fuel uses.)
- <sup>4</sup> Other hydrocarbons production includes light slop material.



# Bitumen Synthetic Plant Operations

4

1997      October  
Year to Date

Operator	Products		Intermediates			
	Synthetic Crude Oil <sup>[3]</sup> m <sup>3</sup>	Other Hydro -carbons [4] m3	Coke tonnes	Sulphur <sup>[2]</sup> tonnes	Bitumen m3	Distillate <sup>[1]</sup> m <sup>3</sup>
<b>Suncor</b>		Diluent Naphtha				
Opening Inventory	83 855	36 879	4 397 184	0	24 754	48 400
Receipts	0	0	0	0	25 486	0
Production	3 063 423	176 883	895 698	140 527	4 579 247	3 784 272
Closing Inventory	120 814	46 001	4 629 032	1 378	24 021	42 755
	3 026 464	167 761	663 850	139 149	4 605 466	3 789 917
Further Processing	0	143 205	0	0	4 603 236	3 092 722
Fuel/Plant Use	47 786	0	524 213	0	0	33 646
Flared/Wasted	0	24 556	0	2 812	2 230	6 397
Metering Diff.	( 326)	0	0	0	0	0
Deliveries	2 979 004	0	139 637	136 337	0	657 152
	3 026 464	167 761	663 850	139 149	4 605 466	3 789 917
<b>Syncrude</b>		Diluent Naphtha				
Opening Inventory	30 593	66 165	18 586 768	1 478 028	166 325	39 937
Receipts	0	0	0	0	35 450	0
Production	9 858 696	152 325	1 774 392	418 570	11 708 738	9 785 999
Closing Inventory	31 928	68 722	19 858 109	1 889 353	280 084	47 089
	9 857 361	149 768	503 051	7 245	11 630 429	9 778 847
Further Processing	0	85 415	0	0	11 630 430	9 677 673
Fuel/Plant Use	114 152	0	503 051	0	0	101 178
Flared/Wasted	0	64 351	0	7 245	0	0
Metering Diff.	( 4)	2	0	0	( 1)	( 4)
Diluent Carryover /Rerun	0	0	0	0	0	0
To Suncor	0	0	0	0	0	0
Deliveries	9 743 213	0	0	0	0	0
	9 857 361	149 768	503 051	7 245	11 630 429	9 778 847



1997	October
Year	Month

Suncor  
Oil Sands

	Tonnes	Grade
Mined	5 176 833	11.00%
Processed	5 176 833	11.00%
External Energy		
	Gas	Electric
	10 <sup>3</sup> m <sup>3</sup>	MWh
Purchased	31 838.1	21 359.0
Generated	na	29 939.0
	31 838.1	51 298.0
Plant Use	15 671.0	51 298.0
Further Processing	16 167.1	0.0
Exported	0.0	0.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	31 838.1	51 298.0

Syncrude  
Oil Sands

	Tonnes	Grade
Mined	14 056 512	10.49%
Processed	13 775 325	10.53%
External Energy		
	Gas	Electric
	10 <sup>3</sup> m <sup>3</sup>	MWh
Purchased	116 468.0	23 082.0
Generated	na	153 056.0
	116 468.0	176 138.0
Plant Use	43 551.0	176 135.5
Further Processing	72 917.0	0.0
Exported	0.0	2.5
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	116 468.0	176 138.0



# Bitumen Synthetic Plant Operations

2

1997  
Year

October  
Month

Operator	Products		Intermediates			
	Synthetic Crude Oil <sup>[3]</sup>	Other Hydro -carbons <sup>[4]</sup>	Coke	Sulphur <sup>[2]</sup>	Bitumen	Distillate <sup>[1]</sup>
	m3	m3	tonnes	tonnes	m3	m <sup>3</sup>
<b>Suncor</b>		Diluent Naphtha				
Opening Inventory	90 204	43 249	4 605 119	1 359	45 555	29 449
Receipts	0	0	0	0	6 113	0
Production	371 646	20 441	106 436	16 765	519 624	456 037
Closing Inventory	120 814	46 001	4 629 032	1 378	24 021	42 755
	341 036	17 689	82 523	16 746	547 271	442 731
Further Processing	0	14 879	0	0	546 608	372 788
Fuel/Plant Use	6 651	0	44 060	0	0	5 562
Flared/Wasted	0	2 810	0	301	663	84
Metering Diff.	( 31)	0	0	0	0	0
Deliveries	334 416	0	38 463	16 445	0	64 297
	341 036	17 689	82 523	16 746	547 271	442 731

<b>Syncrude</b>		Diluent Naphtha				
Opening Inventory	22 376	70 066	19 709 363	1 840 321	357 994	60 312
Receipts	0	0	0	0	0	0
Production	1 162 354	16 302	207 603	49 770	1 292 346	1 134 692
Closing Inventory	31 928	68 722	19 858 109	1 889 353	280 084	47 089
	1 152 802	17 646	58 857	738	1 370 256	1 147 915
Further Processing	0	9 197	0	0	1 370 258	1 141 728
Fuel/Plant Use	8 025	0	58 857	0	0	6 186
Flared/Wasted	0	8 448	0	738	0	0
Metering Diff.	( 18)	1	0	0	( 2)	1
Diluent Carryover						
/Rerun	0	0	0	0	0	0
To Suncor	0	0	0	0	0	0
Deliveries	1 144 795	0	0	0	0	0
	1 152 802	17 646	58 857	738	1 370 256	1 147 915





1997 October  
Year to Date

**Suncor  
Oil Sands**

	Tonnes	Grade
Mined	43 118 256	12.32%
Processed	43 118 256	12.32%
External Energy		
	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	230 392.2	150 797.0
Generated	na	309 701.0
	230 392.2	460 498.0
Plant Use	94 639.7	459 903.0
Further Processing	135 752.5	0.0
Exported	0.0	595.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	230 392.2	460 498.0

**Syncrude  
Oil Sands**

	Grade	
Mined	122 366 720	10.54%
Processed	122 891 583	10.53%
External Energy		
	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	1 033 752.0	258 470.0
Generated	na	1 320 409.0
	1 033 752.0	1 578 879.0
Plant Use	367 177.0	1 577 874.5
Further Processing	666 575.0	0.0
Exported	0.0	1 004.5
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	1 033 752.0	1 578 879.0

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1. Grade: Mass per cent Bitumen in oil sands.
2. Gas volume at 101.325 kPa and 15° C.
3. Liquid volume at 15° C.

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**NOTES**

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- <sup>1</sup> Distillate production does not include heavy fuel oil.
- <sup>2</sup> Sulphur production includes flared / waste.
- <sup>3</sup> Synthetic crude oil production does not include diluent naphtha production.  
Suncor includes diesel production (SCO site fuel uses.)
- <sup>4</sup> Other hydrocarbons production includes light slop material.





1997 November  
Year Month

## Suncor Oil Sands

	Tonnes	Grade
Mined	5 375 004	11.48%
Processed	5 375 004	11.48%

### External Energy

	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	33 294.2	18 169.0
Generated	na	34 841.0
	33 294.2	53 010.0

Plant Use	18 437.5	53 010.0
Further Processing	14 856.7	0.0
Exported	0.0	0.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	33 294.2	53 010.0

## Syncrude Oil Sands

	Tonnes	Grade
Mined	13 442 216	10.65%
Processed	13 543 451	10.65%

### External Energy

	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	108 568.0	21 399.0
Generated	na	154 611.0
	108 568.0	176 010.0

Plant Use	37 116.0	176 010.0
Further Processing	71 452.0	0.0
Exported	0.0	0.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	108 568.0	176 010.0



# Bitumen Synthetic Plant Operations

2

Operator	Products		Intermediates			
	Synthetic Crude Oil <sup>[3]</sup> m3	Other Hydro -carbons <sup>[4]</sup> m3	Coke tonnes	Sulphur <sup>[2]</sup> tonnes	Bitumen m3	Distillate <sup>[1]</sup> m <sup>3</sup>
<b>Suncor</b>		Diluent Naphtha				
Opening Inventory	120 814	46 001	4 629 032	1 378	24 021	42 755
Receipts	0	0	0	0	8 069	0
Production	348 745	16 878	106 445	16 249	557 161	440 944
Closing Inventory	76 286	38 398	4 648 575	1 378	41 939	76 299
	393 273	24 481	86 902	16 249	547 312	407 400
Further Processing	0	21 619	0	0	546 612	338 138
Fuel/Plant Use	5 163	0	46 769	0	0	( 4 740)
Flared/Wasted	0	2 862	0	279	700	2
Metering Diff.	1 098	0	0	0	0	( 1 471)
Deliveries	387 012	0	40 133	15 970	0	75 471
	393 273	24 481	86 902	16 249	547 312	407 400
<b>Syncrude</b>		Diluent Naphtha				
Opening Inventory	31 928	68 722	19 858 109	1 889 353	280 084	47 089
Receipts	0	0	0	0	0	0
Production	1 127 053	15 334	203 432	48 767	1 298 544	1 109 054
Closing Inventory	32 405	67 069	20 003 867	1 937 364	248 871	45 754
	1 126 576	16 987	57 674	756	1 329 757	1 110 389
Further Processing	0	10 245	0	0	1 329 756	1 105 866
Fuel/Plant Use	6 340	0	57 674	0	0	4 522
Flared/Wasted	0	6 743	0	756	0	0
Metering Diff.	( 1)	( 1)	0	0	1	1
Diluent Carryover /Rerun	0	0	0	0	0	0
To Suncor	0	0	0	0	0	0
Deliveries	1 120 237	0	0	0	0	0
	1 126 576	16 987	57 674	756	1 329 757	1 110 389



1997 November

Year to Date

## Suncor Oil Sands

	Tonnes	Grade
Mined	48 493 260	12.23%
Processed	48 493 260	12.23%

### External Energy

	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	263 686.4	168 966.0
Generated	na	344 542.0
	263 686.4	513 508.0

Plant Use	113 077.2	512 913.0
Further Processing	150 609.2	0.0
Exported	0.0	595.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	263 686.4	513 508.0

## Synchrude Oil Sands

	Tonnes	Grade
Mined	135 808 936	10.55%
Processed	136 435 034	10.54%

### External Energy

	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	1 142 320.0	279 869.0
Generated	na	1 475 020.0
	1 142 320.0	1 754 889.0

Plant Use	404 293.0	1 753 884.5
Further Processing	738 027.0	0.0
Exported	0.0	1 004.5
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	1 142 320.0	1 754 889.0



# Bitumen Synthetic Plant Operations

4

1997 November

Year to Date

Operator	Products		Intermediates			
	Synthetic Crude Oil <sup>[3]</sup> m <sup>3</sup>	Other Hydro -carbons [4] m3	Coke tonnes	Sulphur <sup>[2]</sup> tonnes	Bitumen m3	Distillate <sup>[1]</sup> m <sup>3</sup>
<b>Suncor</b>		Diluent Naphtha				
Opening Inventory	83 855	36 879	4 397 184	0	24 754	48 400
Receipts	0	0	0	0	33 555	0
Production	3 416 205	193 761	1 002 143	156 776	5 136 408	4 225 423
Closing Inventory	76 286	38 398	4 648 575	1 378	41 939	76 299
	3 423 774	192 242	750 752	155 398	5 152 778	4 197 524
Further Processing	0	164 824	0	0	5 149 848	3 435 104
Fuel/Plant Use	52 949	0	570 982	0	0	28 906
Flared/Wasted	0	27 418	0	3 091	2 930	6 399
Metering Diff.	4 809	0	0	0	0	( 5 508)
Deliveries	3 366 016	0	179 770	152 307	0	732 623
	3 423 774	192 242	750 752	155 398	5 152 778	4 197 524
<b>Syncrude</b>		Diluent Naphtha				
Opening Inventory	30 593	66 165	18 586 768	1 478 028	166 325	39 937
Receipts	0	0	0	0	35 450	0
Production	10 985 749	167 659	1 977 824	467 337	13 007 282	10 895 053
Closing Inventory	32 405	67 069	20 003 867	1 937 364	248 871	45 754
	10 983 937	166 755	560 725	8 001	12 960 186	10 889 236
Further Processing	0	95 660	0	0	12 960 186	10 783 539
Fuel/Plant Use	120 492	0	560 725	0	0	105 700
Flared/Wasted	0	71 094	0	8 001	0	0
Metering Diff.	( 5)	1	0	0	0	( 3)
Diluent Carryover /Rerun	0	0	0	0	0	0
To Suncor	0	0	0	0	0	0
Deliveries	10 863 450	0	0	0	0	0
	10 983 937	166 755	560 725	8 001	12 960 186	10 889 236



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# **Alberta Oil Sands Plant Statistics**

## **Monthly Supplement**

### **December 1997**



**Alberta Oil Sands  
Plant Statistics  
Monthly Supplement**

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**Note:** Inquiries regarding this publication  
should be directed to the Board's  
Oil Sands Department at  
(403) 297-2399



1. Grade: Mass per cent Bitumen in oil sands.
2. Gas volume at 101.325 kPa and 15° C.
3. Liquid volume at 15° C.

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**NOTES**

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- <sup>1</sup> Distillate production does not include heavy fuel oil.
- <sup>2</sup> Sulphur production includes flared / waste.
- <sup>3</sup> Synthetic crude oil production does not include diluent naphtha production.  
Suncor includes diesel production (SCO site fuel uses.)
- <sup>4</sup> Other hydrocarbons production includes light slop material.





1997  
Year

December  
Month

## Suncor Oil Sands

	Tonnes	Grade
Mined	5 650 061	11.47%
Processed	5 650 061	11.47%
External Energy		
	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	29 772.2	17 385.0
Generated	na	38 148.0
	29 772.2	55 533.0
Plant Use	14 324.0	55 529.0
Further Processin	15 448.2	0.0
Exported	0.0	4.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	29 772.2	55 533.0

## Syncrude Oil Sands

	Tonnes	Grade
Mined	15 282 801	10.80%
Processed	14 031 517	10.64%
External Energy		
	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	106 723.0	19 838.0
Generated	na	163 354.0
	106 723.0	183 192.0
Plant Use	33 194.0	183 156.4
Further Processin	73 529.0	0.0
Exported	0.0	35.6
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	106 723.0	183 192.0



1997  
Year

December  
Month

Operator	Products		Intermediates			
	Synthetic Crude Oil <sup>[3]</sup>	Other Hydro -carbons <sup>[4]</sup>	Coke	Sulphur <sup>[2]</sup>	Bitumen	Distillate <sup>[1]</sup>
	m3	m3	tonnes	tonnes	m3	m <sup>3</sup>
<b>Suncor</b>						
		Diluent Naphtha				
Opening Inventory	76 286	38 398	4 648 575	1 378	41 939	76 299
Receipts	0	0	0	0	8 130	0
Production	390 564	28 081	116 380	18 202	593 047	509 047
Closing Inventory	133 304	42 860	4 691 598	1 378	44 603	70 888
	333 546	23 619	73 357	18 202	598 513	514 458
Further Processin	0	20 971	0	0	597 608	399 176
Fuel/Plant Use	6 036	0	57 176	0	0	7 060
Flared/Wasted	0	2 598	0	307	788	0
Metering Diff.	( 2 123)	0	0	0	0	1 676
Deliveries	329 633	50	16 181	17 895	117	106 546
	333 546	23 619	73 357	18 202	598 513	514 458
<b>Syncrude</b>						
		Diluent Naphtha				
Opening Inventory	32 405	67 069	20 003 867	1 937 364	248 871	45 754
Receipts	0	0	0	0	0	0
Production	1 166 409	15 153	210 137	50 940	1 349 797	1 150 463
Closing Inventory	25 206	66 201	20 154 429	1 987 417	222 977	43 100
	1 173 608	16 021	59 575	887	1 375 691	1 153 117
Further Processin	0	8 239	0	0	1 375 691	1 146 204
Fuel/Plant Use	5 972	0	59 575	0	0	6 914
Flared/Wasted	0	7 782	0	887	0	0
Metering Diff.	13	0	0	0	0	( 1)
Diluent Carryover						
/Rerun	0	0	0	0	0	0
To Suncor	0	0	0	0	0	0
Deliveries	1 167 623	0	0	0	0	0
	1 173 608	16 021	59 575	887	1 375 691	1 153 117



1997 December  
Year to Date

**Suncor  
Oil Sands**

	Tonnes	Grade
Mined	54 143 321	12.15%
Processed	54 143 321	12.15%

**External Energy**

	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	293 458.6	186 351.0
Generated	na	382 690.0
	293 458.6	569 041.0

Plant Use	127 401.2	568 442.0
Further Processin	166 057.4	0.0
Exported	0.0	599.0
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	293 458.6	569 041.0

**Syncrude  
Oil Sands**

	Tonnes	Grade
Mined	151 091 737	10.57%
Processed	150 466 551	10.55%

**External Energy**

	Gas 10 <sup>3</sup> m <sup>3</sup>	Electric MWh
Purchased	1 249 043.0	299 707.0
Generated	na	1 638 374.0
	1 249 043.0	1 938 081.0

Plant Use	437 487.0	1 937 040.9
Further Processin	811 556.0	0.0
Exported	0.0	1 040.1
Flared	0.0	0.0
Metering Diff.	0.0	0.0
	1 249 043.0	1 938 081.0





1997 December  
Year to Date

Operator	Products		Intermediates			
	Synthetic Crude Oil <sup>[3]</sup> m <sup>3</sup>	Other Hydro -carbons [4] m3	Coke tonnes	Sulphur <sup>[2]</sup> tonnes	Bitumen m3	Distillate <sup>[1]</sup> m <sup>3</sup>
<b>Suncor</b>		Diluent Naphtha				
Opening Inventory	83 855	36 879	4 397 184	0	24 754	48 400
Receipts	0	0	0	0	41 685	0
Production	3 806 769	221 842	1 118 523	174 978	5 729 455	4 734 470
Closing Inventory	133 304	42 860	4 691 598	1 378	44 603	70 888
	3 757 320	215 861	824 109	173 600	5 751 291	4 711 982
Further Processin	0	185 795	0	0	5 747 456	3 834 280
Fuel/Plant Use	58 985	0	628 158	0	0	35 966
Flared/Wasted	0	30 016	0	3 398	3 718	6 399
Metering Diff.	2 686	0	0	0	0	( 3 832)
Deliveries	3 695 649	50	195 951	170 202	117	839 169
	3 757 320	215 861	824 109	173 600	5 751 291	4 711 982
<b>Syncrude</b>		Diluent Naphtha				
Opening Inventory	30 593	66 165	18 586 768	1 478 028	166 325	39 937
Receipts	0	0	0	0	35 450	0
Production	12 152 158	182 812	2 187 961	518 277	14 357 079	12 045 516
Closing Inventory	25 206	66 201	20 154 429	1 987 417	222 977	43 100
	12 157 545	182 776	620 300	8 888	14 335 877	12 042 353
Further Processin	0	103 899	0	0	14 335 877	11 929 743
Fuel/Plant Use	126 464	0	620 300	0	0	112 614
Flared/Wasted	0	78 876	0	8 888	0	0
Metering Diff.	8	1	0	0	0	( 4)
Diluent Carryover						
/Rerun	0	0	0	0	0	0
To Suncor	0	0	0	0	0	0
Deliveries	12 031 073	0	0	0	0	0
	12 157 545	182 776	620 300	8 888	14 335 877	12 042 353







